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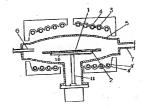
(54) HEAT TREATMENT OF SUBSTRATE

(57) Abstract:

satisfactory reproducibility can be obtained. COPYRIGHT: (C)1996,JPO

PURPOSE: To increase the temperature rise/fall speed and obtain satisfactory reproducibility by making a susceptor of porous glass-fike carbon, in heat treatment of substrate for heating a substrate on a suscepter in a chamber by irradiation with an infrared lamp or induction-heating the substrate by high frequencies.

CONSTITUTION: In a quartz chamber 5, a substrate 1 is supported via a susceptor 2 on a support 10 on a support bar 11. The susceptor 2 is made of porous glass-like carbon coated with SiG, and has a thickness of approximately 3-to-5mm. The porous glass-like carbon has a pap rate of about 97%, a density of about 0.05g/cs and a pore rate of about 50pp. As the substrate is heat-treated with the temperature raised stout doronated to the conventional speed. After heat treatment, as the temperature is lowered, the temperature fall speed is about 10°C/min, which is much faster than the conventional speed. After heat treatment is the conventional speed. By thus raising and lowering the temperature of the substrate 1 at high speeds;



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